############RANGE OF
PROJECTED######################PROJECT/############PROJECT/#####################
#TOTAL #############FIND/FIX###########HRLY ############ACTUAL $############AVG
$/############REWORK SAVINGS###### # #######
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}#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#2#######u###1. Identify the state of software development in the U.S. and discuss reasons that software projects succeed or fail□

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þ#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#2#######□###2. Review improvement models,
including the concepts and terms of the Capability Maturity Model for Software
and how it compares to ISO 9000s

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#Ñ#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#2#######M###3. Discuss Systems Development from the perspective of each stakeholder roler

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%ý##ÿÿ####ÿÿ####@ÿ□#ÿÿd#########d#########K###Over Budget, Delayed, Less Than
Planned Functionality53% - $132.5 Billion#
```

###ÿÿ####UÿÖ#ÿÿ#########d#2#2######### Most business process improvements implemented via software Improved process stability and capability Greater predictability for size, cost, schedule, effort & documentation Increased quality in products and services Reduced rework Decreased reliance on testing to ensure quality Minimized risk to software development investments Efficient project staff start-up time; faster project start-up Dynamic allocation of resources Improved teamwork among stakeholders Improved tool usage Long term benefits from continuous SPI

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süÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#2#######G###Rework Cost Avoidance on 3 Sample
Projects That Implemented CMM Level 2#
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÷}#N  ##ÿÿ####ÿÿ####Uÿ±#ÿÿ□#########d#########O###  All above plus  Organization
that survives AND thrives now AND in the future#
```

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÷ñ#N □#ÿÿ####ÿÿ####Uÿ±#ÿÿ□#########d#########7### All above plus Stable,
challenging work environment#

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#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########¥###ORGANIZATION PROCESS FOCUS
ORGANIZATION PROCESS DEFINITIONPEER REVIEWSTRAINING PROGRAMINTERGROUP
COORDINATIONSOFTWARE PRODUCT ENGINEERINGINTEGRATED SOFTWARE MGT#

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þÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########7###DEFECT PREVENTIONTECHNOLOGY
INNOVATIONPROCESS CHG MGT#

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£úÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########0###The Capability Maturity Model
(CMM)#for Software

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      "#ÿÿ####ÿÿ####UÿÖ#ÿÿ□#########d#########W###  ISO 9000 ISO SPICE Malcolm
Baldridge Other CMMs The Microsoft Framework (MSF)#
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□#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#2#######□### CMM CMM Appraisals DSDC Status MIL-
STD 498 Project Mgt Risk Mgt Configuration Mgt SQA Size/Cost Estimation Testing
Software Environments#
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###ÿÿ####ÿÿ####@ÿ□#ÿÿd#########x#########¶###Requirements ManagementSoftware
Project PlanningSoftware Project Tracking & OversightSoftware Subcontractor
ManagementSoftware Configuration ManagementSoftware Quality Assurance
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ö#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d############## Strong Senior Management Commitment to Process Improvement SEPG is operating effectively Associates not afraid of hard work Organization has strong technical capabilities Organization is eager to improve Organization committed to delivering quality products Organization knows and supports its systems and customers Organization understands that everyone (including customers) must take this journey together DSDC Project Guide is a very effective tool Auditing has enhanced implementation of the process

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l#############ýÿ####Ç9È#######P#È#####3##□##êõ5ýæ
O#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########Ì### Resources are adequate for current workload but can easily become strained with downsizing and increased number of projects Metrics are being collected but not used effectively to improve the process Metrics have not been defined for all level 3 KPAs and therefore there is limited management visibility Policies and procedures have not been fully defined for most level 3 KPAs Level 3 Institutionalization Common Features are not satisfied for most KPAs

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□#ÿÿ####ÿÿ####Uÿ□#ÿÿd#########d#########ñ### Review metrics program and how the metrics can be used more effectively to improve process and products Review resource allocations based on changes in the organization and workloads Address life cycle requirements traceability Establish an organizational planning database Establish defect and lessons learned database Improve definition of technical interfaces with subcontractors Acquire automated tool for configuration management Expand SQA audits to cover technical software products#

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s#ÿÿ####ÿÿ#####ÿ□#ÿÿd#########d#########R###Click to edit Master text styles
Second LevelThird LevelFourth LevelFifth Level
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